PAZ300

Panasonic

Glass len

2-00.45±0.05

2.54±0.25

Unit: mm

PNZ300 (PN300), PNZ300F (PN300F)

Silicon planar type

For optical control systems

Features

- Fast response which is well suited to high speed modulated light detection
- Wide spectral sensitivity
- · Low dark current and low noise
- Good photo current linearity and wide dynamic sensitivity
- Narrow directivity (PNZ300)
- Wide derectivity (PNZ300F)

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Reverse voltage	V _R	50	v
Power dissipation	P_D	100	mW
Operating ambient temperature	T _{opr}	-25 to +85	°C
Storage temperature	T _{stg}	-30 to $+100$) °C



2: Cathode MTGFR102-001 Package

Electrical-Optical Characteristics T. $25^{\circ}C$ + 3°C

Parameter		Symbol	Conditions	Min	Тур	Мах	Unit
Dark current		ID	$V_{\rm R} = 10 {\rm V}$		0.1	10	nA
Photocurrent *1	PNZ300	IL	$V_{\rm R} = 10^{-1}$, $L = 1000$ lx	30	55		μΑ
	PNZ300F		\$0 ¹¹ .0.11	5	7		
Peak emission wavelength		λ_p	$V_R = 10 V$		800		nm
Rise time *2		tr	$V_{\rm R} = 20 \text{ V}, \text{ R}_{\rm L} = 50 \Omega$		1		ns
Fall time *2		A			1		ns
Terminal capacitance		C _t	$V_{R} = 10 V, f = 1 MHz$		7		pF
Half-power angle	PNZ300	θ	The angle from which photocurrent		10		0
	PNZ300F		becomes 50%		40		

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

- 2. Spectral sensitivity characteristics: Sensitivity for wave length over 400 nm maximum sensitivity ratio is 100%.
 - 3. This device is designed be disregarded radiation.
 - 4. *1: Source: Tungsten (color temperature 2856 K)
 - *2: Switching time measurement circuit



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